

FIG.1

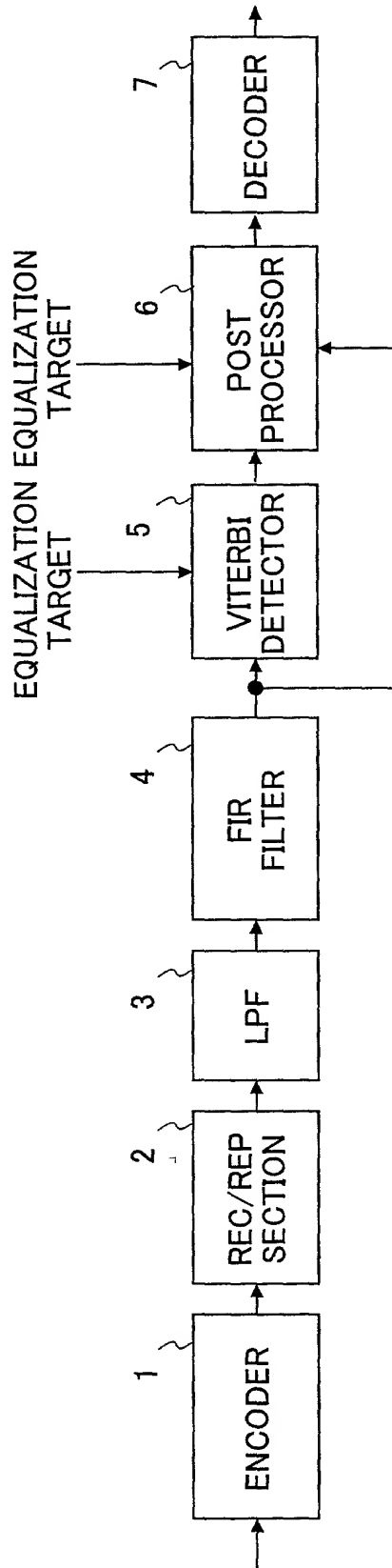


FIG. 2

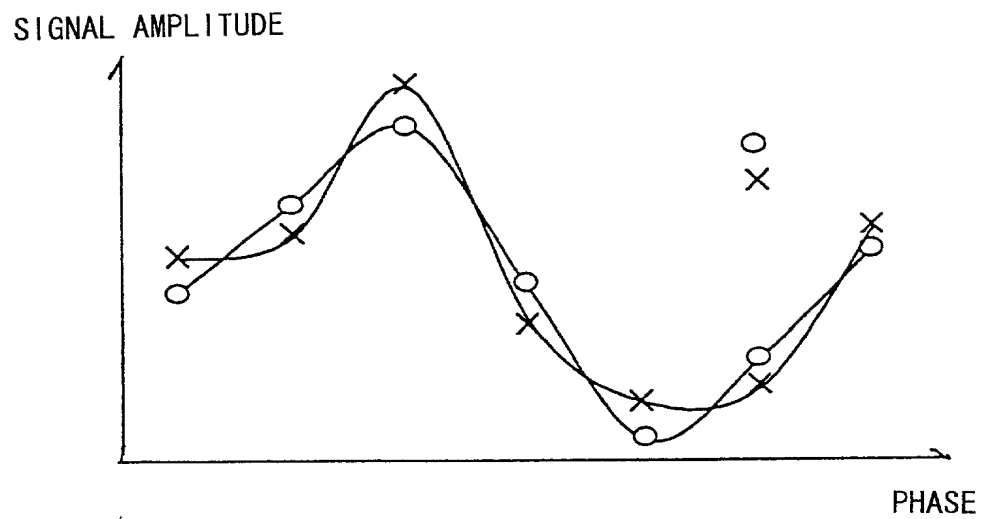


FIG.3

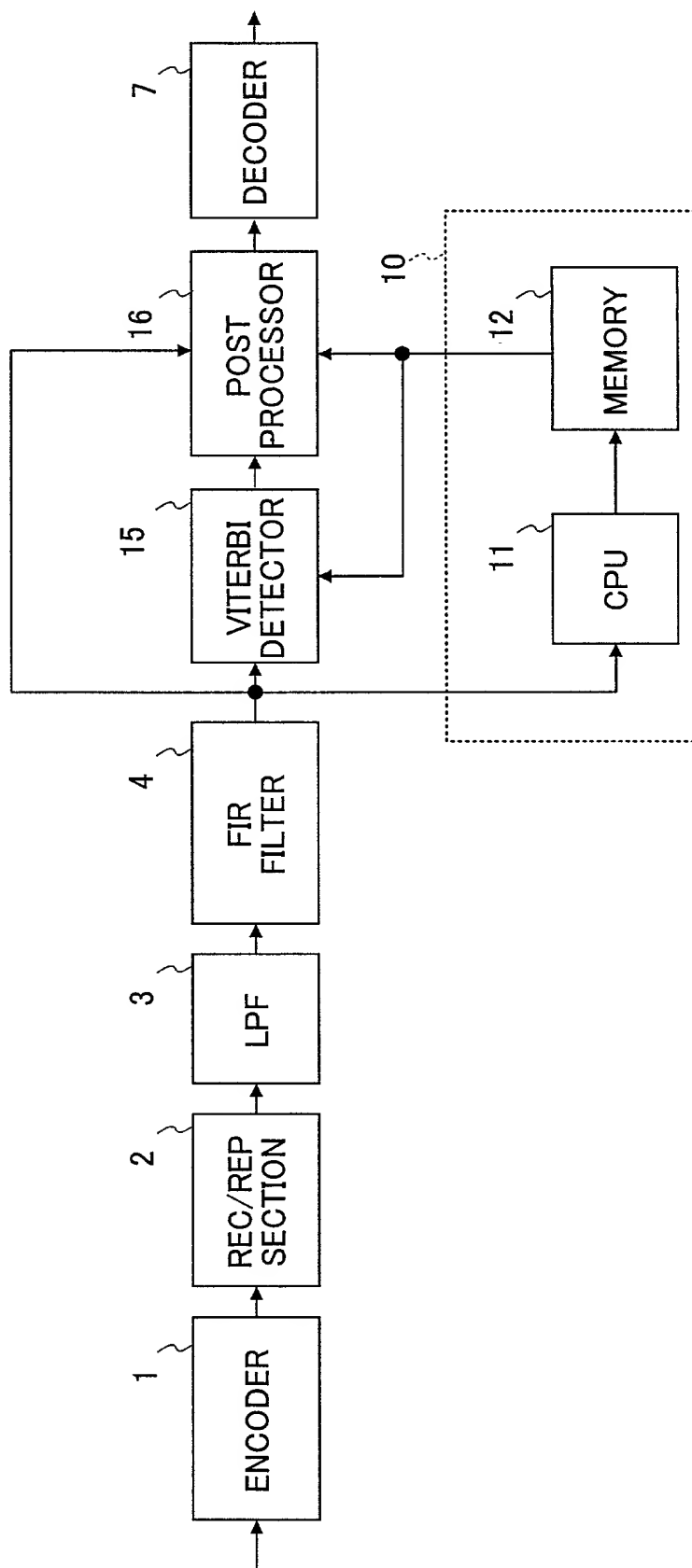


FIG.4

ak-3ak-2ak-1ak	EQUALIZATION OUTPUT bk	
	IDEAL EQUALIZATION VALUE	AVERAGE VALUE OF ACTUAL EQUALIZED WAVEFORM
0000	0	μ_0
0001	+1	μ_1
0010	+1	μ_2
0011	+2	μ_3
0100	-1	μ_4
0101	0	μ_5
0110	0	μ_6
0111	+1	μ_7
1000	-1	μ_8
1001	0	μ_9
1010	0	μ_{10}
1011	+1	μ_{11}
1100	-2	μ_{12}
1101	-1	μ_{13}
1110	-1	μ_{14}
1111	0	μ_{15}

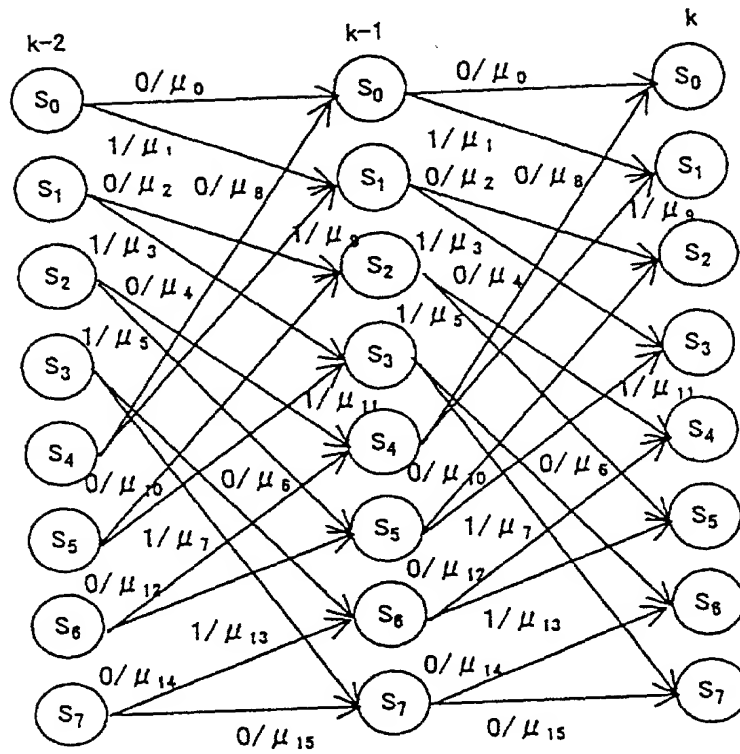
FIG.5

$a_k - 2a_{k-1}a_k$	STATE
000	S_0
001	S_1
010	S_2
011	S_3
100	S_4
101	S_5
110	S_6
111	S_7

FIG.6

STATE OF 1 BIT BEFORE	PRESENT STATE			PRESENT EQUALIZATION OUTPUT b_k		
	PRESENT STATE		IDEAL VALUE	AVERAGE VALUE OF ACTUAL EQUALIZED WAVEFORM		
	a_k			a_k		
S_0	0	1	0	1	0	1
S_1	S_0	S_1	0	+1	μ_0	μ_1
S_2	S_2	S_3	+1	+2	μ_2	μ_3
S_3	S_4	S_5	-1	0	μ_4	μ_5
S_4	S_6	S_7	0	+1	μ_6	μ_7
S_5	S_0	S_1	-1	0	μ_8	μ_9
S_6	S_2	S_3	0	+1	μ_{10}	μ_{11}
S_7	S_4	S_5	-2	-1	μ_{12}	μ_{13}
	S_6	S_7	-1	0	μ_{14}	μ_{15}

FIG. 7



000244-000004

FIG. 8

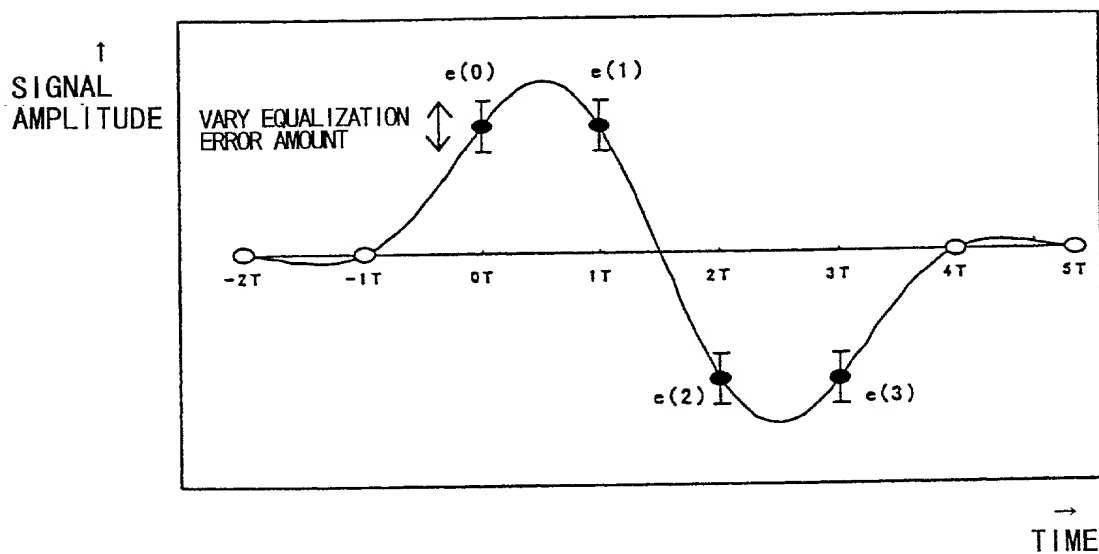


FIG. 9

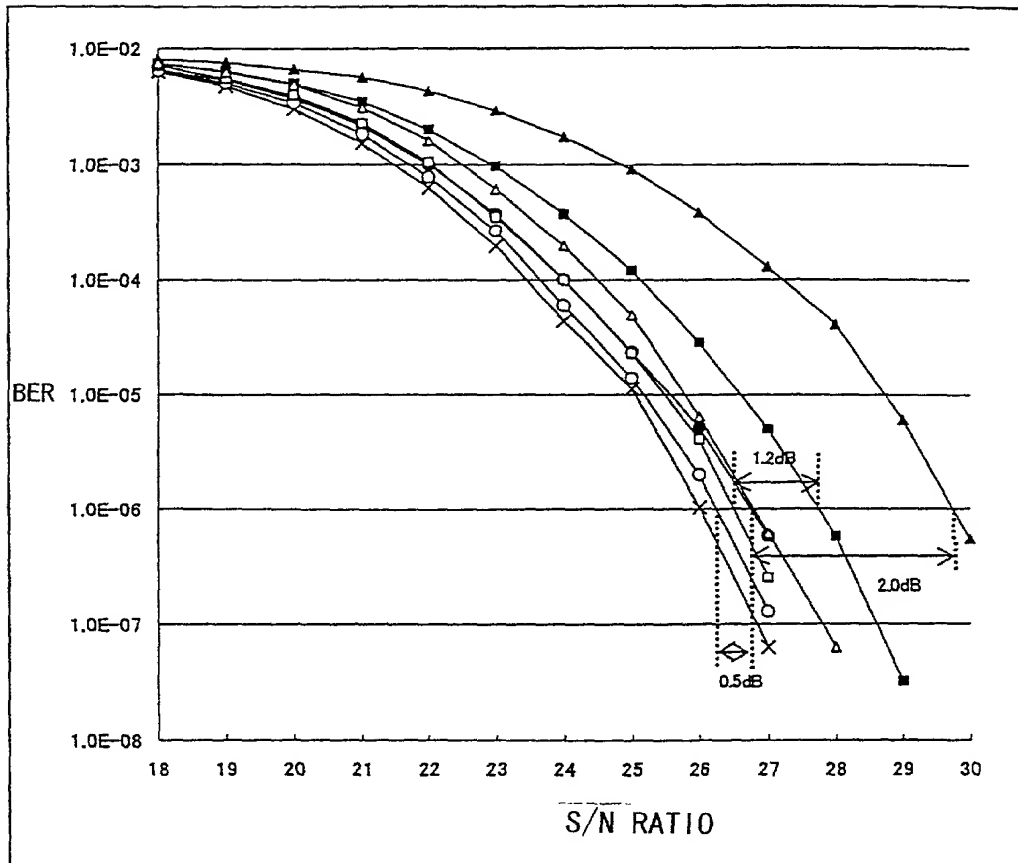


FIG.10

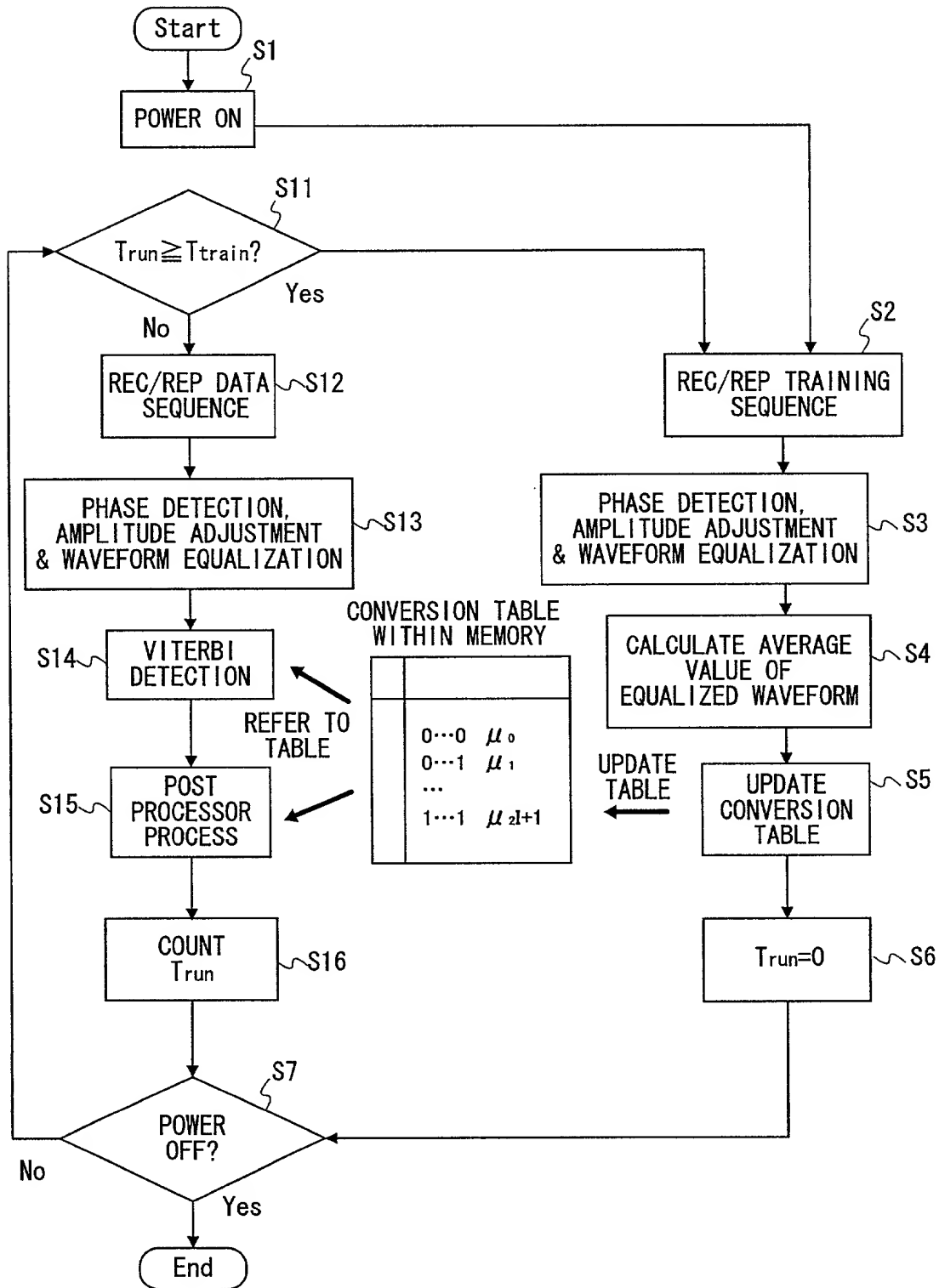


FIG.11

a_{k-2}	a_{k-1}	a_k	COMPENSATION AMOUNT
0	0	1	-
0	1	1	T_{01}
1	0	1	T_{10}
1	1	1	T_{11}

0941.65729

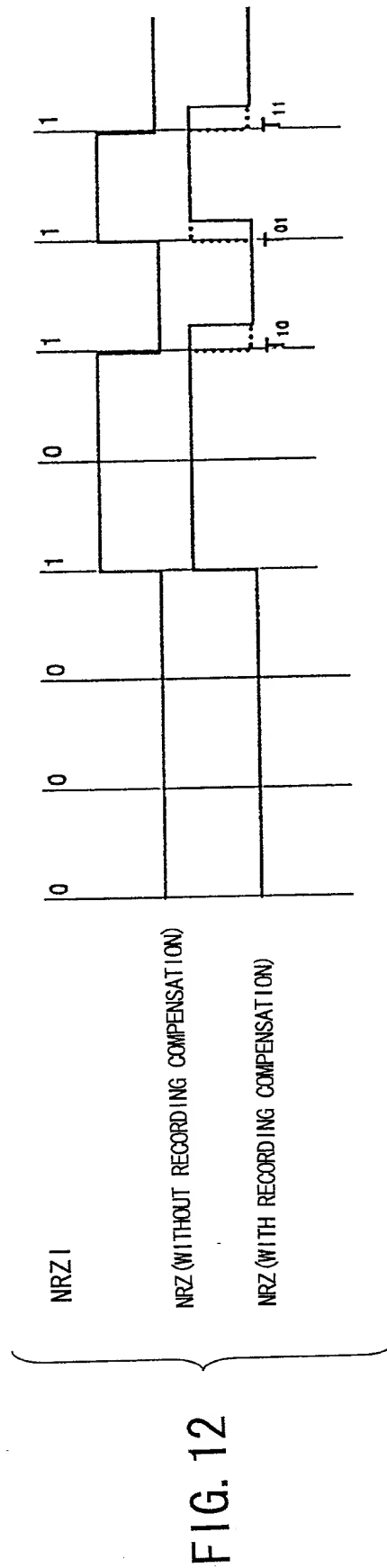
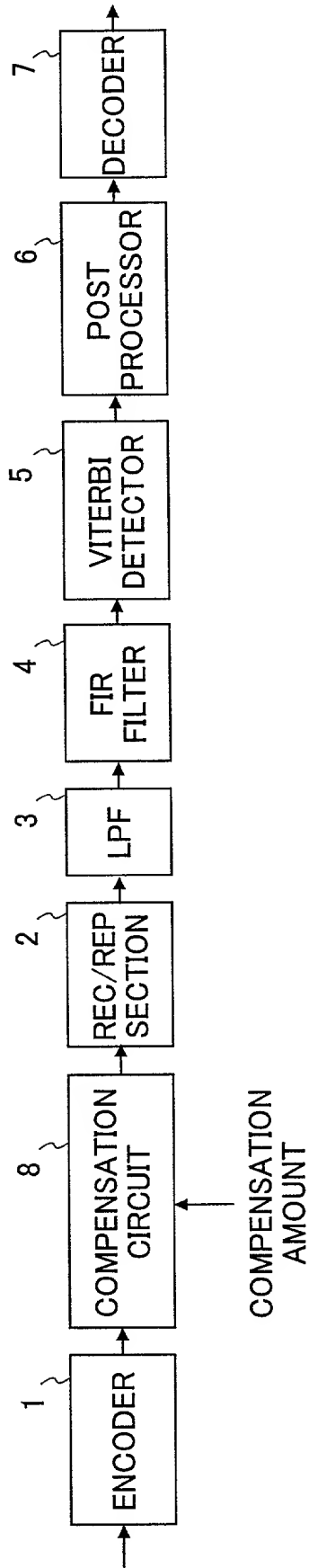
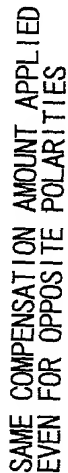


FIG. 12

FIG.13





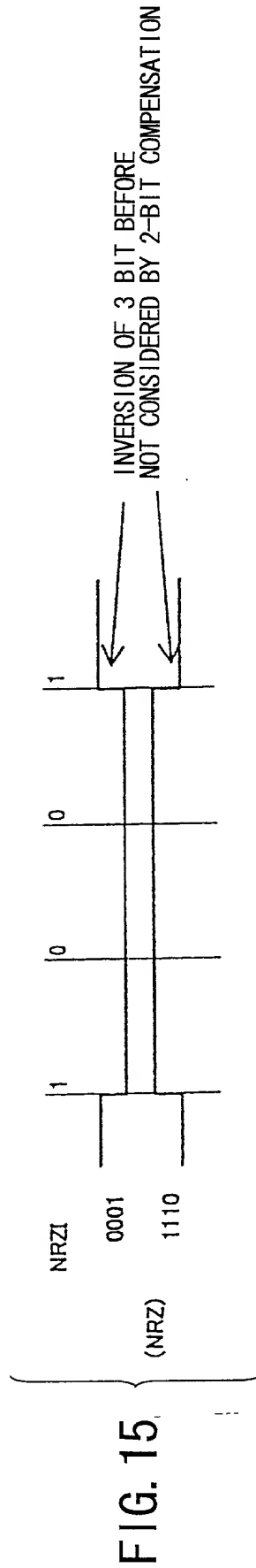


FIG.16

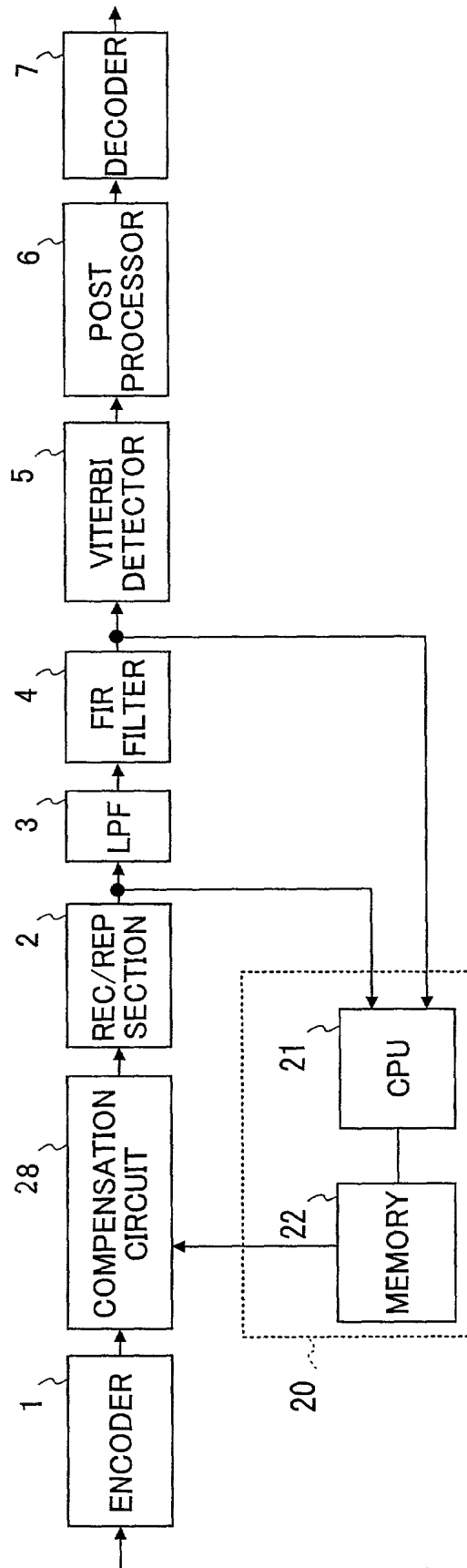
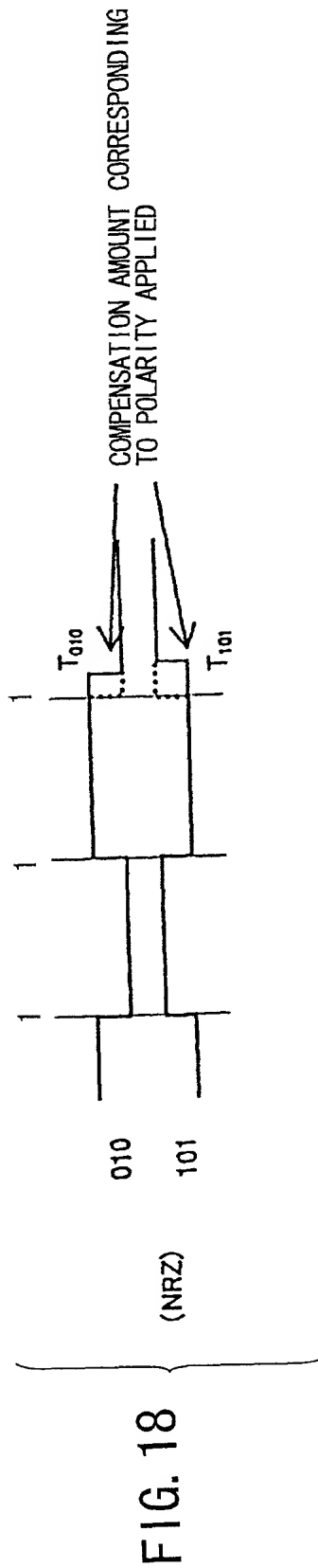


FIG.17

a_{k-1}	\dots	a_k	\dots	a_{k+1}	POLARITY	COMPENSATION AMOUNT
0	\dots	1	\dots	0	+	$T_{0\dots 1\dots 0+}$
	\dots		\dots		-	$T_{0\dots 1\dots 0-}$
\dots	\dots	\dots	\dots	\dots	\dots	\dots
1	\dots	1	\dots	1	+	$T_{0\dots 1\dots 1+}$
					-	$T_{0\dots 1\dots 1-}$



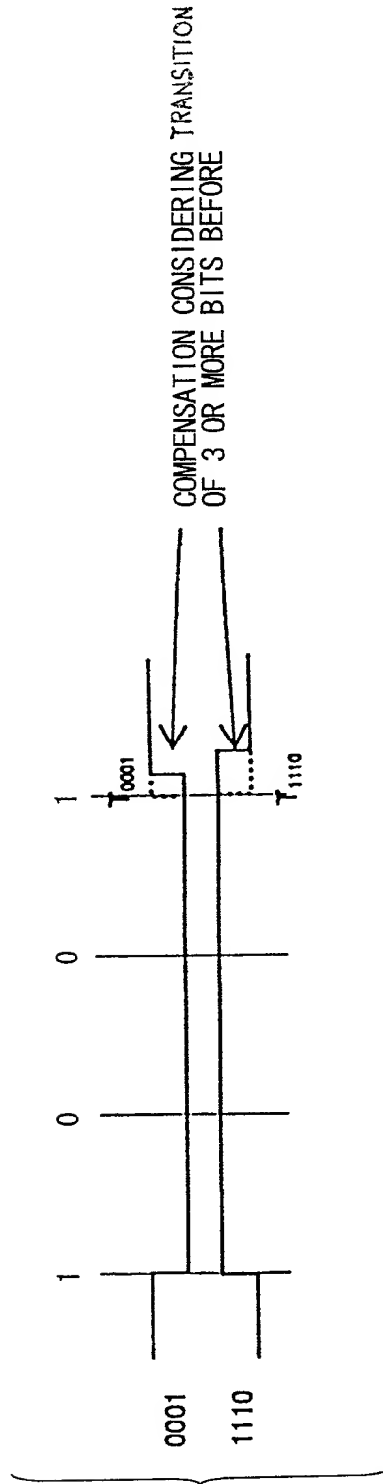


FIG. 19

FIG.20

RECORDING SEQUENCE					AVERAGE VALUE $w(t)$ ($-1 \leq t \leq 1$) OF OVER-SAMPLED REPRODUCED OR EQUALIZED WAVEFORM						
a_{k-1}	\dots	a_k	\dots	a_{k+1}	POLARITY	$w(-1)$	\dots	$w(0)$	\dots	$w(1)$	\dots
0	\dots	1	\dots	0	+	$W(-1)0\dots1\dots0+$	\dots	$W(0)0\dots1\dots0+$	\dots	$W(1)0\dots1\dots0+$	\dots
					-	$W(-1)0\dots1\dots0-$	\dots	$W(0)0\dots1\dots0-$	\dots	$W(1)0\dots1\dots0-$	\dots
0	\dots	1	\dots	0	+	$W(-1)0\dots1\dots1+$	\dots	$W(0)0\dots1\dots1+$	\dots	$W(1)0\dots1\dots1+$	\dots
					-	$W(-1)0\dots1\dots1-$	\dots	$W(0)0\dots1\dots1-$	\dots	$W(1)0\dots1\dots1-$	\dots
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
1	\dots	1	\dots	0	+	$W(-1)1\dots1\dots0+$	\dots	$W(0)1\dots1\dots0+$	\dots	$W(1)1\dots1\dots0+$	\dots
					-	$W(-1)1\dots1\dots0-$	\dots	$W(0)1\dots1\dots0-$	\dots	$W(1)1\dots1\dots0-$	\dots
1	\dots	1	\dots	1	+	$W(-1)1\dots1\dots1+$	\dots	$W(0)1\dots1\dots1+$	\dots	$W(1)1\dots1\dots1+$	\dots
					-	$W(-1)1\dots1\dots1-$	\dots	$W(0)1\dots1\dots1-$	\dots	$W(1)1\dots1\dots1-$	\dots

FIG. 21

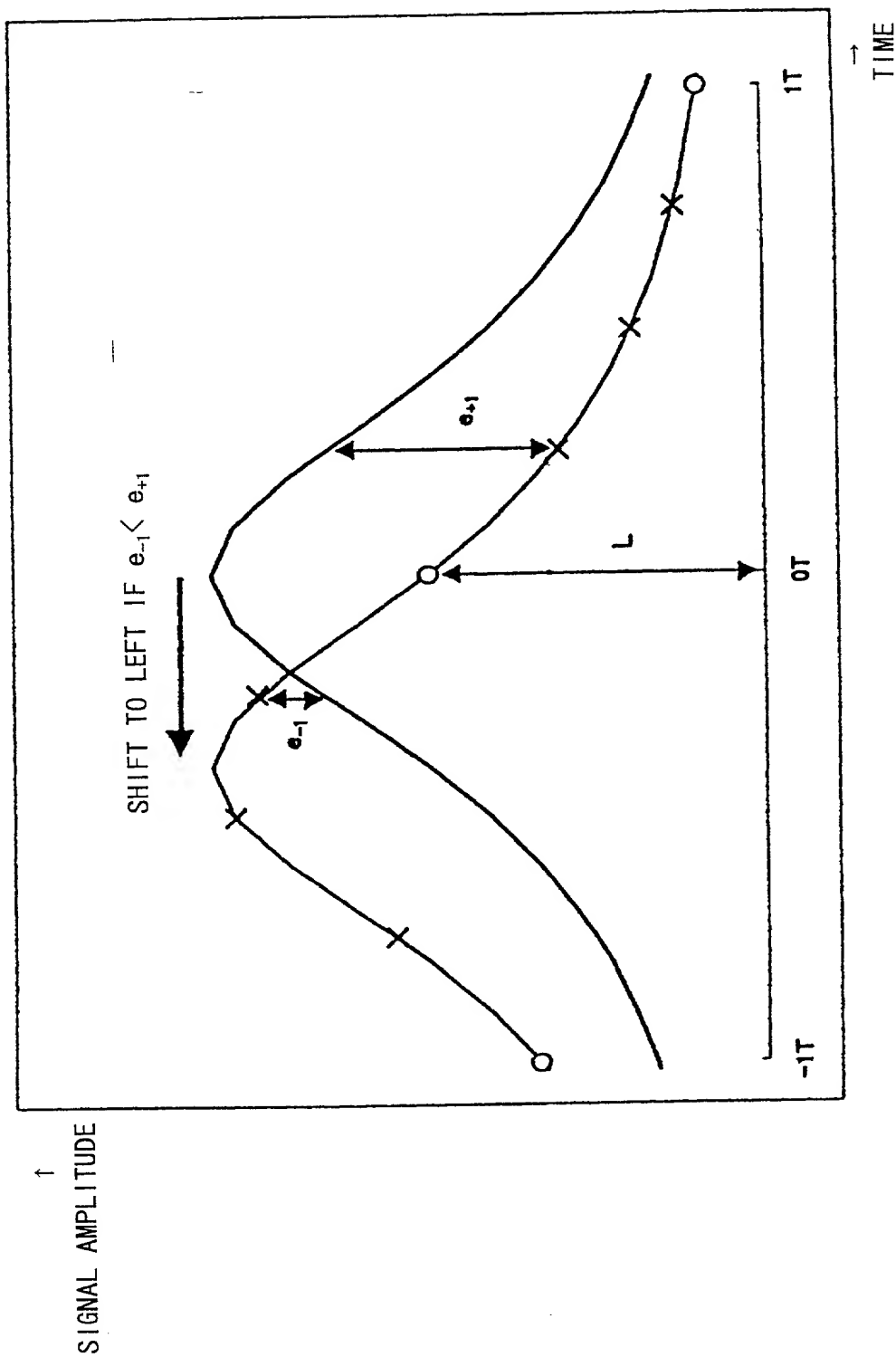


FIG. 22

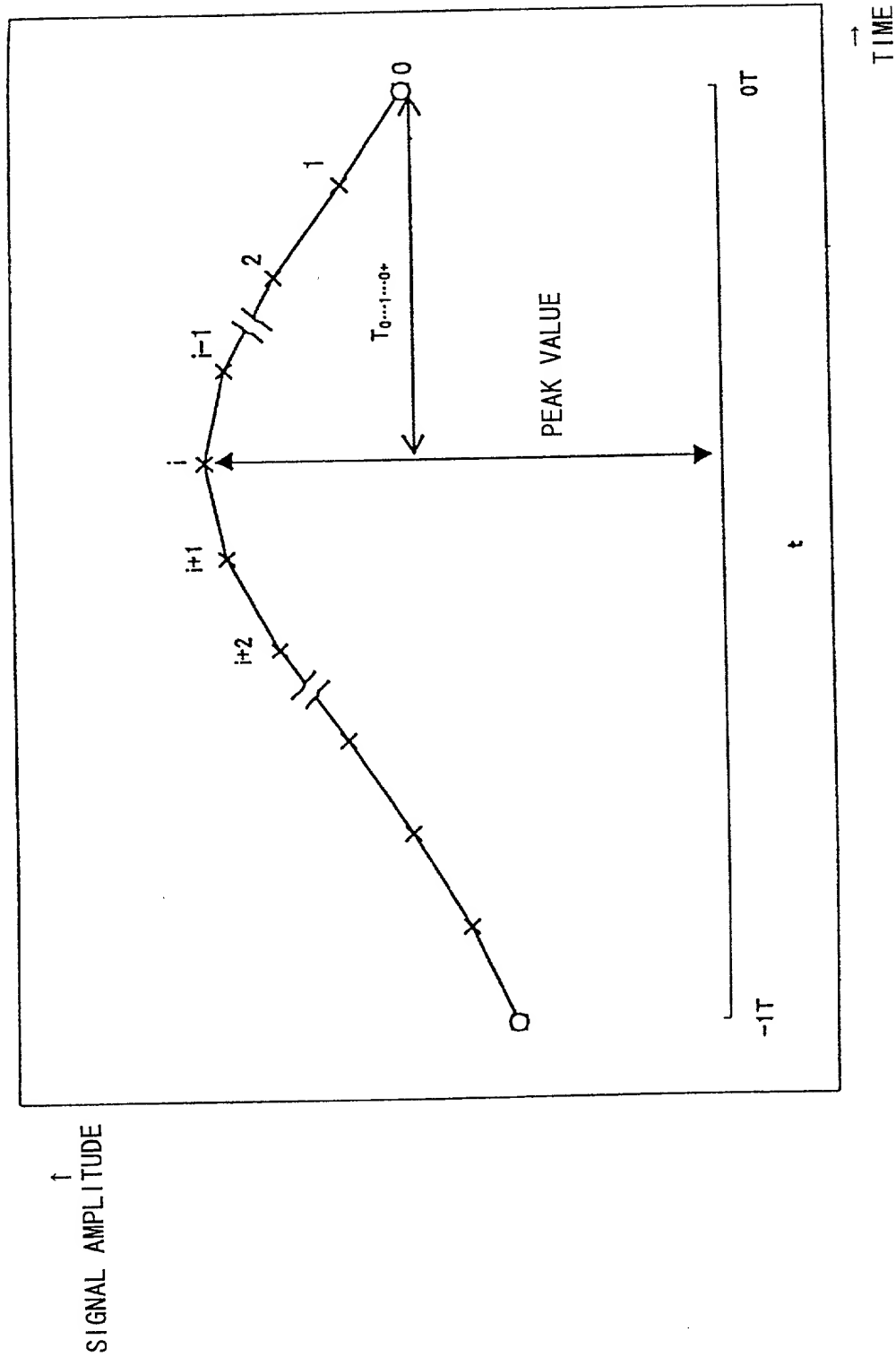


FIG. 23

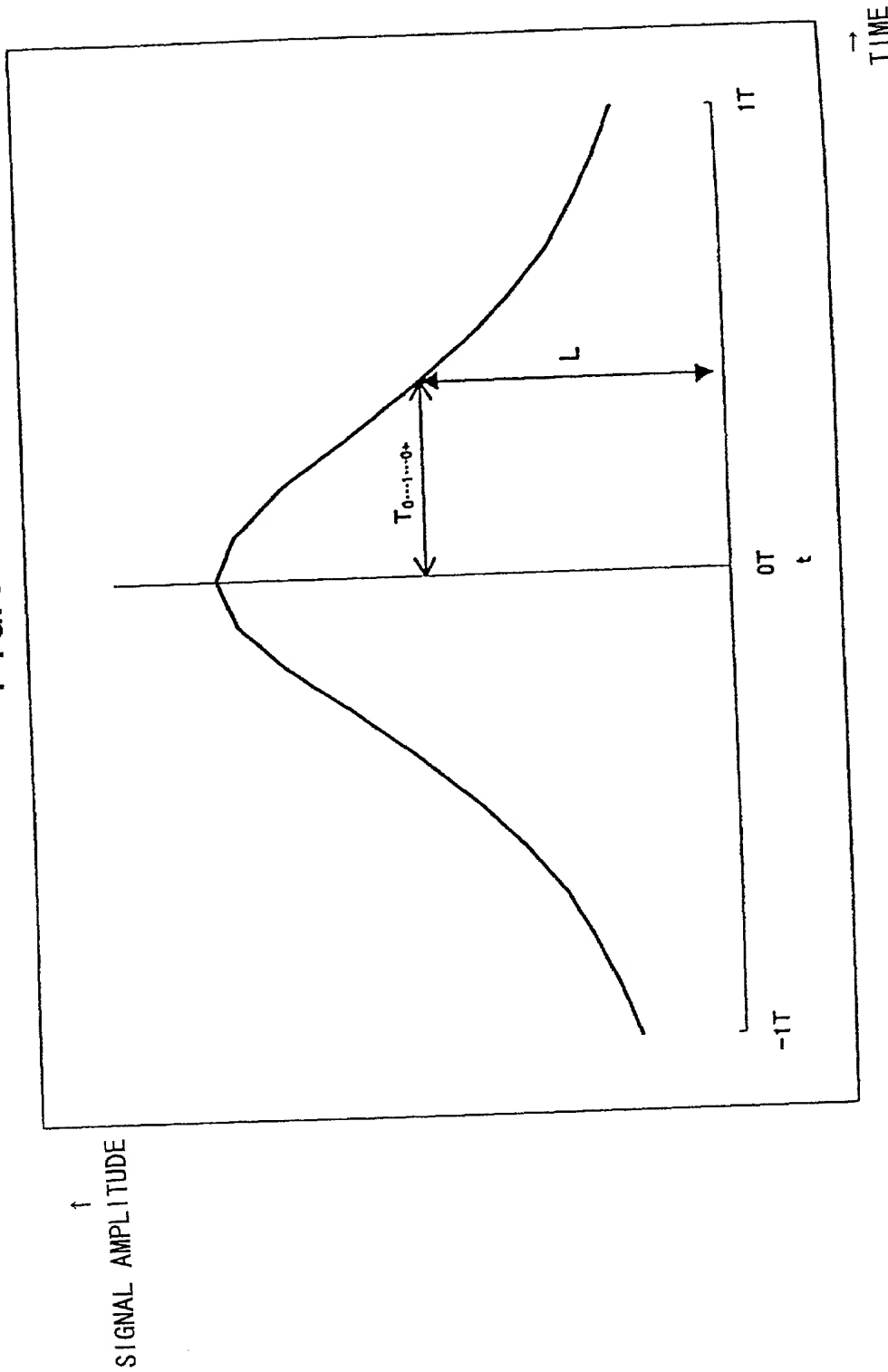


FIG.24

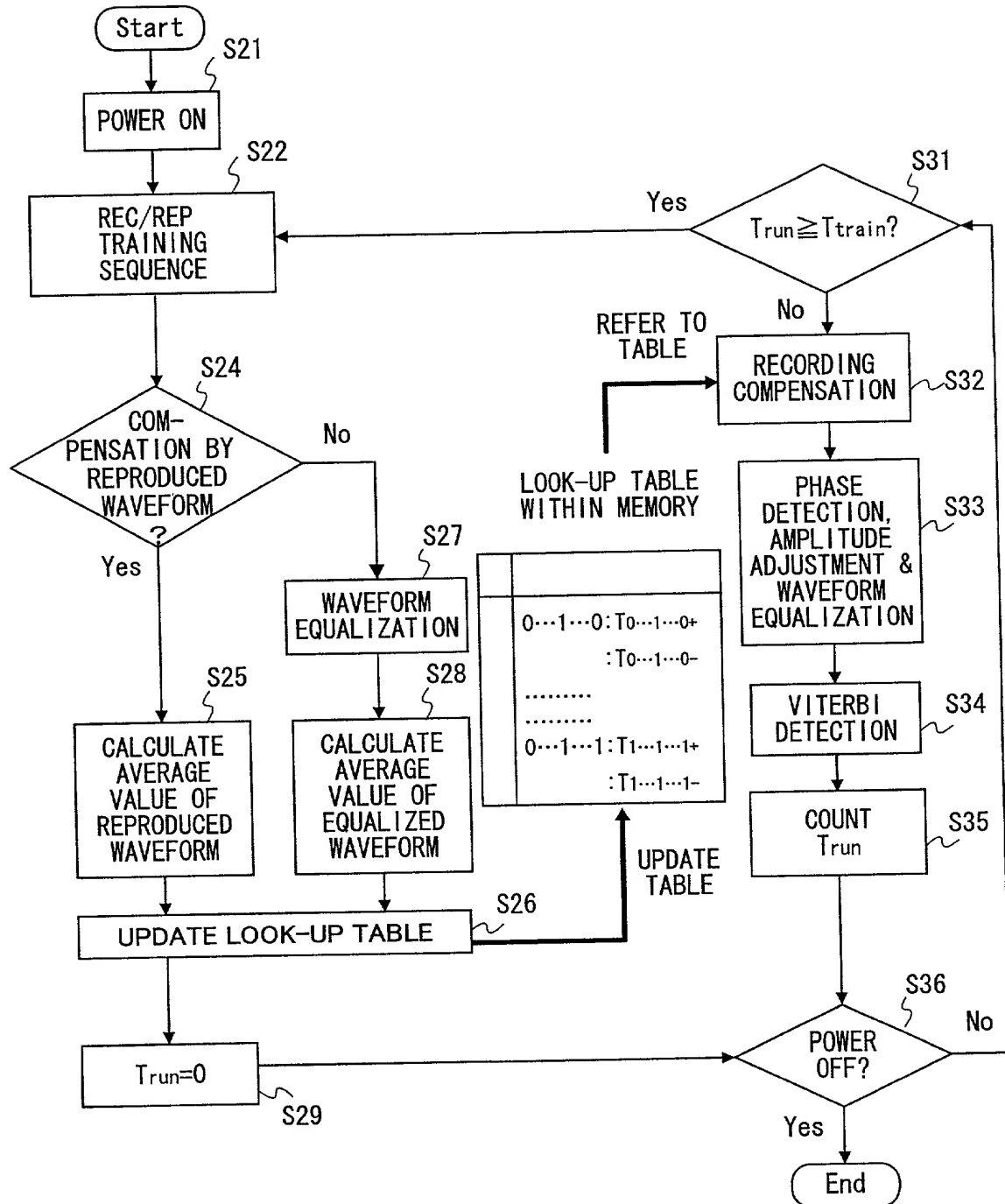


FIG.25

